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## ABSTRACT OF THE DISCLOSURE

## MULTI-WAVELENGTH GRATING-OUTCOUPLED SURFACE EMITTING LASER SYSTEM

A surface emitting semiconductor laser system having four cavities that couple light from a single aperture. Each of the four cavities overlaps at the outcoupling aperture. Each cavity is fabricated to resonate at a different central wavelength, outputting a different frequency of light, each of which can be independently modulated.